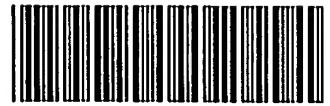


RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/522,356
Source: Pat/10
Date Processed by STIC: 11/18/05

ENTERED



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,356

DATE: 11/18/2005

TIME: 10:25:17

Input Set : A:\12286155.app
 Output Set: N:\CRF4\11182005\J522356.raw

3 <110> APPLICANT: WHITELAW, CHRISTOPHER BRUCE ALEXANDER
 4 CLARK, ANTHONY JOHN
 5 WOLF, CHARLES ROLAND
 7 <120> TITLE OF INVENTION: MULTI-REPORTER GENE MODEL FOR TOXICOLOGICAL SCREENING
 9 <130> FILE REFERENCE: 102286.155 US1
 11 <140> CURRENT APPLICATION NUMBER: 10/522,356
 12 <141> CURRENT FILING DATE: 2005-01-26
 14 <150> PRIOR APPLICATION NUMBER: PCT/GB03/003192
 15 <151> PRIOR FILING DATE: 2003-07-25
 17 <150> PRIOR APPLICATION NUMBER: GB 0217402.7
 18 <151> PRIOR FILING DATE: 2002-07-26
 20 <160> NUMBER OF SEQ ID NOS: 41
 22 <170> SOFTWARE: PatentIn version 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 10
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Homo sapiens
 29 <400> SEQUENCE: 1
 30 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
 31 1 5 10
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 14
 36 <212> TYPE: PRT
 37 <213> ORGANISM: Simian virus
 39 <400> SEQUENCE: 2
 40 Gly Lys Pro Ile Pro Asn Pro Leu Leu Gly Leu Asp Ser Thr
 41 1 5 10
 44 <210> SEQ ID NO: 3
 45 <211> LENGTH: 9
 46 <212> TYPE: PRT
 47 <213> ORGANISM: Unknown
 49 <220> FEATURE:
 50 <223> OTHER INFORMATION: Description of Unknown Sequence: Haemaglutinin
 51 epitope from unknown organism
 53 <400> SEQUENCE: 3
 54 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
 55 1 5
 58 <210> SEQ ID NO: 4
 59 <211> LENGTH: 12
 60 <212> TYPE: PRT
 61 <213> ORGANISM: Unknown
 63 <220> FEATURE:
 64 <223> OTHER INFORMATION: Description of Unknown Sequence: Clone100

8.6

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,356

DATE: 11/18/2005

TIME: 10:25:17

Input Set : A:\12286155.app

Output Set: N:\CRF4\11182005\J522356.raw

65 epitope from unknown organism
67 <400> SEQUENCE: 4
68 Asn Val Arg Phe Ser Thr Ile Val Arg Arg Arg Ala
69 1 5 10
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 14
74 <212> TYPE: PRT
75 <213> ORGANISM: Unknown
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Description of Unknown Sequence: Rab11a
79 epitope from unknown organism
81 <400> SEQUENCE: 5
82 Lys Gln Met Ser Asp Arg Arg Glu Asn Asp Met Ser Pro Ser
83 1 5 10
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 15
88 <212> TYPE: PRT
89 <213> ORGANISM: Unknown
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Description of Unknown Sequence: DOB
93 epitope from unknown organism
95 <400> SEQUENCE: 6
96 Ser Gly Asn Glu Val Ser Arg Ala Val Leu Leu Pro Gln Ser Cys
97 1 5 10 15
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 17
102 <212> TYPE: PRT
103 <213> ORGANISM: Unknown
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Unknown Sequence: SG11
107 epitope from unknown organism
109 <400> SEQUENCE: 7
110 Ser Ser Leu Ser Tyr Thr Asn Pro Ala Val Ala Ala Thr Ser Ala Asn
111 1 5 10 15
114 Leu
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 15
120 <212> TYPE: PRT
121 <213> ORGANISM: Unknown
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Unknown Sequence: ErbB4
125 epitope from unknown organism
127 <400> SEQUENCE: 8
128 Arg Ser Thr Leu Gln His Pro Asp Tyr Leu Gln Glu Tyr Ser Thr
129 1 5 10 15
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 16
134 <212> TYPE: PRT
135 <213> ORGANISM: Unknown

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,356

DATE: 11/18/2005

TIME: 10:25:17

Input Set : A:\12286155.app

Output Set: N:\CRF4\11182005\J522356.raw

137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Unknown Sequence: ARF
139 epitope from unknown organism
141 <400> SEQUENCE: 9
142 Val Ser Thr Leu Leu Arg Trp Glu Arg Phe Pro Gly His Arg Gln Ala
143 1 5 10 15
146 <210> SEQ ID NO: 10
147 <211> LENGTH: 20
148 <212> TYPE: PRT
149 <213> ORGANISM: Unknown
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Description of Unknown Sequence: RYK
153 epitope from unknown organism
155 <400> SEQUENCE: 10
156 Lys Phe Gln Gln Leu Val Gln Cys Leu Thr Glu Phe His Ala Ala Leu
157 1 5 10 15
160 Gly Ala Tyr Val
161 20
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 20
166 <212> TYPE: PRT
167 <213> ORGANISM: Unknown
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Description of Unknown Sequence: WILPEP1
171 epitope from unknown organism
173 <400> SEQUENCE: 11
174 Gln Glu Gln Cys Gln Glu Val Trp Arg Lys Arg Val Ile Ser Ala Phe
175 1 5 10 15
178 Leu Lys Ser Pro
179 20
182 <210> SEQ ID NO: 12
183 <211> LENGTH: 14
184 <212> TYPE: PRT
185 <213> ORGANISM: Unknown
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Description of Unknown Sequence: HAF10
189 epitope from unknown organism
191 <400> SEQUENCE: 12
192 Arg Leu Ser Asp Lys Thr Gly Pro Val Ala Gln Glu Lys Ser
193 1 5 10
196 <210> SEQ ID NO: 13
197 <211> LENGTH: 543
198 <212> TYPE: DNA
199 <213> ORGANISM: Mus musculus
201 <220> FEATURE:
202 <221> NAME/KEY: CDS
203 <222> LOCATION: (1)..(540)
205 <400> SEQUENCE: 13
206 atg aag atg ctg ctg ctg tgt ttg gga ctg acc cta gtc tgt gtc

48

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,356

DATE: 11/18/2005

TIME: 10:25:17

Input Set : A:\12286155.app

Output Set: N:\CRF4\11182005\J522356.raw

207 Met Lys Met Leu Leu Leu Cys Leu Gly Leu Thr Leu Val Cys Val
 208 1 5 10 15
 210 cat gca gaa gaa gct agt tct acg gga agg aac ttt aat gta gaa aag 96
 211 His Ala Glu Glu Ala Ser Ser Thr Gly Arg Asn Phe Asn Val Glu Lys
 212 20 25 30
 214 att aat ggg gaa tgg cat act att atc ctg gcc tct gac aaa aga gaa 144
 215 Ile Asn Gly Glu Trp His Thr Ile Ile Leu Ala Ser Asp Lys Arg Glu
 216 35 40 45
 218 aag ata gaa gat aat ggc aac ttt aga ctt ttt ctg gag caa atc cat 192
 219 Lys Ile Glu Asp Asn Gly Asn Phe Arg Leu Phe Leu Glu Gln Ile His
 220 50 55 60
 222 gtc ttg gag aaa tcc tta gtt ctt aaa ttc cat act gta aga gat gaa 240
 223 Val Leu Glu Lys Ser Leu Val Leu Lys Phe His Thr Val Arg Asp Glu
 224 65 70 75 80
 226 gag tgc tcg gaa tta tct atg gtt gct gac aaa aca gaa aag gct ggt 288
 227 Glu Cys Ser Glu Leu Ser Met Val Ala Asp Lys Thr Glu Lys Ala Gly
 228 85 90 95
 230 gaa tat tct gtg acg tat gat gga ttc aat aca ttt act ata cct aag 336
 231 Glu Tyr Ser Val Thr Tyr Asp Gly Phe Asn Thr Phe Thr Ile Pro Lys
 232 100 105 110
 234 aca gac tat gat aac ttt ctt atg gct cat ctc att aac gaa aag gat 384
 235 Thr Asp Tyr Asp Asn Phe Leu Met Ala His Leu Ile Asn Glu Lys Asp
 236 115 120 125
 238 ggg gaa acc ttc cag ctg atg ggg ctc tat ggc cga gaa cca gat ttg 432
 239 Gly Glu Thr Phe Gln Leu Met Gly Leu Tyr Gly Arg Glu Pro Asp Leu
 240 130 135 140
 242 agt tca gac atc aag gaa agg ttt gca caa cta tgt gag aag cat gga 480
 243 Ser Ser Asp Ile Lys Glu Arg Phe Ala Gln Leu Cys Glu Lys His Gly
 244 145 150 155 160
 246 atc ctt aga gaa aat atc att gac cta tcc aat gcc aat cgc tgc ctc 528
 247 Ile Leu Arg Glu Asn Ile Ile Asp Leu Ser Asn Ala Asn Arg Cys Leu
 248 165 170 175
 250 cag gcc cga gaa tga 543
 251 Gln Ala Arg Glu
 252 180
 255 <210> SEQ ID NO: 14
 256 <211> LENGTH: 180
 257 <212> TYPE: PRT
 258 <213> ORGANISM: Mus musculus
 260 <400> SEQUENCE: 14
 261 Met Lys Met Leu Leu Leu Cys Leu Gly Leu Thr Leu Val Cys Val
 262 1 5 10 15
 265 His Ala Glu Glu Ala Ser Ser Thr Gly Arg Asn Phe Asn Val Glu Lys
 266 20 25 30
 269 Ile Asn Gly Glu Trp His Thr Ile Ile Leu Ala Ser Asp Lys Arg Glu
 270 35 40 45
 273 Lys Ile Glu Asp Asn Gly Asn Phe Arg Leu Phe Leu Glu Gln Ile His
 274 50 55 60
 277 Val Leu Glu Lys Ser Leu Val Leu Lys Phe His Thr Val Arg Asp Glu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,356

DATE: 11/18/2005
TIME: 10:25:17

Input Set : A:\12286155.app
Output Set: N:\CRF4\11182005\J522356.raw

278 65 70 75 80
281 Glu Cys Ser Glu Leu Ser Met Val Ala Asp Lys Thr Glu Lys Ala Gly
282 85 90 95
285 Glu Tyr Ser Val Thr Tyr Asp Gly Phe Asn Thr Phe Thr Ile Pro Lys
286 100 105 110
289 Thr Asp Tyr Asp Asn Phe Leu Met Ala His Leu Ile Asn Glu Lys Asp
290 115 120 125
293 Gly Glu Thr Phe Gln Leu Met Gly Leu Tyr Gly Arg Glu Pro Asp Leu
294 130 135 140
297 Ser Ser Asp Ile Lys Glu Arg Phe Ala Gln Leu Cys Glu Lys His Gly
298 145 150 155 160
301 Ile Leu Arg Glu Asn Ile Ile Asp Leu Ser Asn Ala Asn Arg Cys Leu
302 165 170 175
305 Gln Ala Arg Glu
306 180
309 <210> SEQ ID NO: 15
310 <211> LENGTH: 540
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
316 recombinant mMUP reporter molecule
318 <220> FEATURE:
319 <221> NAME/KEY: CDS
320 <222> LOCATION: (1)..(537)
322 <400> SEQUENCE: 15
323 ggg ccc ctg gga tcc atg gag cag aaa ctc atc tct gaa gag gat ctg 48
324 Gly Pro Leu Gly Ser Met Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
325 1 5 10 15
327 acc atg gaa gct agt tct acg gga agg aac ttt aat gta gaa aag att 96
328 Thr Met Glu Ala Ser Ser Thr Gly Arg Asn Phe Asn Val Glu Lys Ile
329 20 25 30
331 aat ggg gaa tgg cat act att atc ctg gcc tct gac aaa aga gaa aag 144
332 Asn Gly Glu Trp His Thr Ile Ile Leu Ala Ser Asp Lys Arg Glu Lys
333 35 40 45
335 ata gaa gat aat ggc aac ttt aga ctt ttt ctg gag caa atc cat gtc 192
336 Ile Glu Asp Asn Gly Asn Phe Arg Leu Phe Leu Gln Ile His Val
337 50 55 60
339 ttg gag aaa tcc tta gtt ctt aaa ttc cat act gta aga gat gaa gag 240
340 Leu Glu Lys Ser Leu Val Leu Lys Phe His Thr Val Arg Asp Glu Glu
341 65 70 75 80
343 tgc tcg gaa tta tct atg gtt gct gac aaa aca gaa aag gct ggt gaa 288
344 Cys Ser Glu Leu Ser Met Val Ala Asp Lys Thr Glu Lys Ala Gly Glu
345 85 90 95
347 tat tct gtg acg tat gat gga ttc aat aca ttt act ata cct aag aca 336
348 Tyr Ser Val Thr Tyr Asp Gly Phe Asn Thr Phe Thr Ile Pro Lys Thr
349 100 105 110
351 gac tat gat aac ttt ctt atg gct cat ctc att aac gaa aag gat ggg 384
352 Asp Tyr Asp Asn Phe Leu Met Ala His Leu Ile Asn Glu Lys Asp Gly

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/522,356

DATE: 11/18/2005
TIME: 10:25:18

Input Set : A:\12286155.app
Output Set: N:\CRF4\11182005\J522356.raw

Base Note:

3 of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

J#:36; N Pos. 5,6,7,8,9
J#:40; N Pos. 6,7,8
J#:41; N Pos. 6,7,8

VERIFICATION SUMMARY DATE: 11/18/2005
PATENT APPLICATION: US/10/522,356 TIME: 10:25:18

Input Set : A:\12286155.app
Output Set: N:\CRF4\11182005\J522356.raw

1565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
1626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
1645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0